Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- 1.-20. (Cancelled)
- 21. (Currently Amended) A computer system comprising:

a console comprising a first coupling site, a second coupling site, and a power supply, each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site and the power supply; and

a plurality of computer modules, each coupled to a connector and comprising,

a processing unit configured to operate at a frequency of 400 MHz or higher for high speed serial communication with the other modules,

a main memory coupled to the processing unit, and

a mass storage device coupled to the processing unit,

wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, wherein each of the computer modules receives DC power from the power supply in the console, and wherein any two of the computer modules can replace each other in operation.

- 22. (Previously Presented) The computer system of claim 21 wherein the power supply in the console is an AC to DC power supply.
- 23. (Previously Presented) The computer system of claim 21 wherein the console further comprises of a second power supply to supply DC power to the computer modules.

- 24. (Previously Presented) The computer system of claim 21 further comprising a serial communication controller adapted to transfer data between any of the two computer modules.
- 25. (Previously Presented) The computer system of claim 24 wherein the serial communication controller comprises an Ethernet connection coupled to an external network.
- 26. (Previously Presented) The computer system of claim 23 further comprising a serial communication controller adapted to transfer data between any of the two computer modules.
- 27. (Previously Presented) The computer system of claim 26 wherein the serial communication controller comprises an Ethernet connection coupled to an external network.

28-36. (Canceled)

of housing each coupling site;

37. (Previously Presented) A computer system comprising:
a console comprising a first coupling site, a second coupling site, and a power supply, each coupling site comprising a connector, the console being an enclosure that is capable

a plurality of computer modules, each coupled to a connector and comprising, a processing unit configured to operate at a frequency of 400 MHz or higher for high speed serial communication with the other modules,

a main memory coupled to the processing unit, and

a mass storage device coupled to the processing unit; and

a peripheral system shared between the plurality of computer modules, wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, wherein each

of the computer modules receives DC power from the power supply in the console, and wherein any two of the computer modules can replace each other in operation.

- 38. (Previously Presented) The computer system of claim 37 wherein the peripheral system comprises at least one device selected from the group consisting of an input device, a second input device, a first monitor, a second monitor, a CDROM, and an external communication port.
- 39. (Previously Presented) The computer system of claim 37 wherein an Ethernet controller is utilized for communication between the computer modules to access the shared peripheral system.
- 40. (Previously Presented) The peripheral system of claim 38 wherein the peripheral device is used to control any one of the computer modules of claim 37.
- 41. (Currently Amended) A computer system comprising:

 a plurality of computer modules, each coupled to a connector and comprising,

 a processing unit configured to operate at a frequency of 400 MHz or

 higher for high speed serial communication with the other modules,

 a main memory coupled to the processing unit, and

 a mass storage device coupled to the processing unit;

 a peripheral system shared between the plurality of computer modules; and

 a console comprising a first coupling site, a second coupling site and a power

 supply, each coupling site comprising a connector, the console comprising an enclosure capable

 of housing each coupling site and the power supply,

wherein each coupling site is a slot and each computer module engages into a respective slot, wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer

system, and wherein each of the computer modules receives DC power from the power supply in the console.

- 42. (Previously Presented) The computer system of claim 41 wherein the peripheral system comprises at least one device selected from the group consisting of a keyboard, a mouse, a first monitor, a second monitor, a CDROM, and an external communication port.
- 43. (Previously Presented) The computer system of claim 41 wherein an Ethernet controller is utilized for communication between the computer modules to access the shared peripheral system.
- 44. (Previously Presented) The computer system of claim 42 wherein the peripheral device is used to control any one of the computer modules of claim 41.

45-51 (Canceled)

52. (Previously Presented) A computer system comprising:

a console comprising a first coupling site, a second coupling site, and a power supply; each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site; and

a plurality of computer modules, each comprising,

a processing unit configured to operate at a frequency of 400 MHz or higher for high speed serial communication with the other modules,

a network controller coupled to the processing unit, and

a mass storage device coupled to the processing unit,

wherein each of the computer units is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, wherein each

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of the computer modules receive DC power from the power supply in the console, and wherein any two computer modules can replace each other in operation.

- 53. (Previously Presented) The computer system of claim 52 wherein the console further comprises a serial communication controller coupled to the network controller of each of the computer modules wherein the serial communication controller is adapted to transfer data between any two of the computer modules.
- 54. (Previously Presented) The computer system of claim 53 wherein the serial communication controller comprises an Ethernet connection coupled to an external network.
- 55. (Previously Presented) The computer system of claim 54 wherein the Ethernet connection to the external network comprises a Giga-bit Ethernet connection.
- 56. (Previously Presented) The computer system of claim 52 wherein the network controller comprises an Ethernet controller.
- 57. (Previously Presented) The computer system of claim 56 wherein the network controller in each computer module comprises a Giga-Bit Ethernet controller.
- 58. (Previously Presented) The computer system of claim 53 wherein the serial communication controller receives power from the console power supply.
- 59. (Previously Presented) The computer system of claim 24 wherein the serial communication controller receives power from the console power supply.
- 60. (Previously Presented) The computer system of claim 32 wherein the serial communication controller receives power from the console power supply.

- 61. (Previously Presented) The computer system of claim 46 wherein the serial communication controller receives power from the console power supply.
- 62. (Currently Amended) A computer system comprising:
 a console comprising a first coupling site, a second coupling site, and a serial
 communication controller, each coupling site comprising a connector, the console comprising an
 enclosure capable of housing each coupling site; and

a plurality of computer modules <u>mated with said console</u>, each comprising,
a processing unit configured to operate at a frequency of 400 MHz or
higher for high speed serial communication with the other modules,
a network controller coupled to the processing unit, and
a mass storage device coupled to the processing unit,
wherein each of the computer units is substantially similar in design to each other to provide

wherein each of the computer units is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, wherein each of the computer modules communicates with each other and to an external network through the serial communication controller in the console, and wherein any two computer modules can replace each other in operation.

- 63. (Previously Presented) The computer system of claim 62 wherein the console further comprises a power supply that supplies power to the serial communication controller.
- 64. (Previously Presented) The computer system of claim 62 wherein the serial communication controller supports Giga-bit Ethernet network communication.
- 65. (Previously Presented) The computer system of claim 62 wherein the network controller in each of the computer modules supports Giga-bit Ethernet network communication.

66. (Currently Amended) A computer system comprising:

a console comprising a first coupling site, a second coupling site, a serial communication controller, and a power supply, each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site and <u>the</u> power supply; and

a plurality of computer modules, each coupled to a connector and comprising, a processing unit configured to operate at a frequency of 400 MHz or higher,

a network controller configured to support Giga-bit Ethernet network communication with the other modules,

a main memory coupled to the processing unit, and

a mass storage device coupled to the processing unit,

wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, wherein each of the computer modules receives DC power from the power supply in the console, and wherein any two of the computer modules can replace each other in operation.

67. (Previously Presented) A computer system comprising:

a shared peripheral console comprising a first coupling site, a second coupling site, a serial communication controller and a power supply, each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site; and a plurality of computer modules, each coupled to a connector and comprising,

a processing unit configured to operate at a frequency of 400 MHz or higher,

an Ethernet network controller configured to allow high speed serial communication with the other modules,

a main memory coupled to the processing unit, a mass storage device coupled to the processing unit, and

stored graphic control software code for performing a control function, wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, wherein each of the computer modules receives DC power from the power supply in the console, and wherein any two of the computer modules can replace each other in operation.

68. (Currently Amended) A computer system comprising:

a console comprising a first coupling site, a second coupling site, a serial communication controller, and a power supply, each coupling site comprising a connector, the console comprising an enclosure capable of housing each coupling site and the power supply;

a plurality of computer modules, each coupled to a connector and comprising, a processing unit configured to operate at a frequency of 400 MHz or higher,

a network controller coupled to the processor to allow high speed serial communication with the other modules,

a main memory coupled to the processing unit, a mass storage device coupled to the processing unit, and

keyboard and mouse input data processing software; and

module keyboard and mouse switch software switching an external keyboard, and mouse to couple to each of the computer modules,

wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, wherein each of the computer modules receive DC power from the power supply in the console, and wherein any two of the computer modules can replace each other in operation.

69. (Previously Presented) The computer system of claim 21 wherein each computer module comprises a second enclosure.

- 70. (Previously Presented) The computer system of claim 69 wherein the console further comprises a serial communication controller adapted to transfer data between any two of the computer modules.
- 71. (Previously Presented) The computer system of claim 70 wherein direct communication between computer modules within the console is primarily through serial communication.

72-74. (Canceled)

- 75. (Previously Presented) The computer system of claim 37 wherein each computer module comprises a second enclosure.
- 76. (Previously Presented) The computer system of claim 75 wherein the console further comprises a serial communication controller adapted to transfer data between any two of the computer modules.
- 77. (Previously Presented) The computer system of claim 76 wherein direct communication between any two of the computer modules adapted within the console is primarily through serial communication.
- 78. (Previously Presented) The computer system of claim 41 wherein each computer module comprises a second enclosure.
- 79. (Previously Presented) The computer system of claim 78 wherein the console further comprises a serial communication controller adapted to transfer data between any two of the computer modules.

80. (Previously Presented) The computer system of claim 79 wherein direct communication between any two of the computer modules adapted within the console is primarily through serial communication.

81-83. (Canceled)

- 84. (Previously Presented) The computer system of claim 52 wherein each computer module comprises a second enclosure.
- 85. (Previously Presented) The computer system of claim 84 wherein the console further comprises a serial communication controller adapted to transfer data between any two of the computer modules.
- 86. (Previously Presented) The computer system of claim 85 wherein direct communication between any two of the computer modules adapted within the console is primarily through serial communication.
- 87. (Previously Presented) The computer system of claim 62 wherein each computer module comprises a second enclosure.
- 88. (Previously Presented) The computer system of claim 87 wherein the serial communication controller supports Giga-bit Ethernet communication between computer modules and connects to an external network.
- 89. (Previously Presented) The computer system of claim 66 wherein each computer module comprises a second enclosure.

- 90. (Previously Presented) The computer system of claim 67 wherein the serial communication controller supports Giga-bit Ethernet communication between computer modules and connects to an external network.
- 91. (Previously Presented) The computer system of claim 67 wherein each computer module comprises a second enclosure.
- 92. (Previously Presented) The computer system of claim 68 wherein the serial communication controller supports Giga-bit Ethernet communication between computer modules and connects to an external network.
- 93. (Previously Presented) The computer system of claim 68 wherein each computer module comprises a second enclosure.
 - 94. (Currently Amended) A computer system comprising:

a console comprising a first coupling site, a second coupling site, and a serial communication hub controller, each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site and said serial communication hub controller; and

a plurality of computer modules <u>mated with said console</u>, each coupled to a connector and comprising,

- a processing unit,
- a main memory coupled to the processing unit,
- a hard disk drive coupled to the processing unit, and
- a serial communication controller coupled to said serial communication hub controller serving as the primary high speed direct communication with the other computer modules within the console,

wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system.

- 95. (Previously Presented) The computer system of claim 94 wherein the console further comprises video, keyboard and mouse switch circuits coupled to the serial communication hub controller.
- 96. (Currently Amended) A computer system for multi-processing purposes, the computer system comprising:

a console comprising a first coupling site and a second coupling site; each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site;

a plurality of computer modules <u>mated with said console</u>, each of the computer modules enclosed within a housing and coupled to a connector, each of the computer modules comprising a processing unit, a main memory coupled to the processing unit, a graphics controller coupled to the processing unit, and a mass storage device comprising a hard disk drive coupled to the processing unit;

wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, and wherein one of the plurality of computer modules is configured to provide protection against failure of another of the plurality of computer modules.

- 97. (Previously Presented) The computer system of claim 96 wherein the console further comprises a serial communication controller adapted to transfer data between any two of the computer modules.
- 98. (Previously Presented) The computer system of claim 97 wherein direct communication between any two of the computer modules adapted within the console is primarily through serial communication.

- 99. (Previously Presented) The computer system of claim 97 wherein the serial communication controller supports Giga-bit Ethernet communication between computer modules and connects to an external network.
- 100. (Currently Amended) The computer system of claim 96 wherein the console further comprises at least one of:

video, keyboard, and mouse switch software; and

video, keyboard and mouse switch circuits coupled to the serial communication hub controller.

101. (Currently Amended) A computer system for multi-processing purposes, the computer system comprising:

a console comprising a first coupling site and a second coupling site; each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site;

a plurality of computer modules <u>mated with said console</u>, each of the computer modules coupled to a connector, each of the computer modules comprising a processing unit, a main memory coupled to the processing unit, a graphics controller coupled to the processing unit, a Giga-bit Ethernet controller, and a hard disk drive;

wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system.

102. (Previously Presented) The computer system of claim 101 wherein the console further comprises a serial communication controller adapted to transfer data between any two of the computer modules.

- 103. (Previously Presented) The computer system of claim 101 wherein direct communication between any two of the computer modules adapted within the console is primarily through serial communication.
- 104. (Previously Presented) The computer system of claim 102 wherein the serial communication controller supports Giga-bit Ethernet communication between computer modules and connects to an external network.
- 105. (Currently Amended) The computer system of claim 101 wherein the console further comprises at least one of:

video, keyboard, and mouse switch software; and
video, keyboard and mouse switch circuits coupled to the serial communication
hub controller.

106. (Currently Amended) A computer system for multi-processing purposes, the computer system comprising:

a console comprising a first coupling site and a second coupling site; each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site;

a plurality of computer modules <u>mated with said console</u>, each of the computer modules coupled to a connector, each of the computer modules comprising a processing unit, a main memory coupled to the processing unit, a graphics controller coupled to the processing unit, and a mass storage device coupled to the processing unit; and

a serial communication hub controller housed within the console and adapted to transfer data between any two of the computer modules,

wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system.

- 107. (Previously Presented) The computer system of claim 106 wherein the console further comprises a power supply that supplies power to the serial communication hub controller.
- 108. (Previously Presented) The computer system of claim 106 wherein the serial communication hub controller supports Ethernet network communication.
- 109. (Previously Presented) The computer system of claim 106 wherein the serial communication hub controller supports Giga-bit Ethernet network communication.
- 110. (Previously Presented) The computer system of claim 106 wherein each of the computer modules further comprises a network controller configured to support Giga-bit Ethernet network communication.
- 111. (Previously Presented) The computer system of claim 100 further comprising at least one of a special key on a keyboard and a special screen icon, the special key and the icon configured to allow the user to switch a screen display from one computer module to another computer module.
- 112. (Previously Presented) The computer system of claim 105 further comprising at least one of a special key on a keyboard and a special screen icon, the special key and the icon configured to allow the user to switch a screen display from one computer module to another computer module.
- 113. (Previously Presented) The computer system of claim 106 wherein the console further comprises at least one of:

video, keyboard, and mouse switch software; and

video, keyboard and mouse switch circuits coupled to the serial communication hub controller.

114. (Previously Presented) The computer system of claim 113 further comprising at least one of a special key on a keyboard and a special screen icon, the special key and the icon configured to allow the user to switch a screen display from one computer module to another computer module.

115. (New) A computer system comprising:

a console comprising a first coupling site, a second coupling site, an Ethernet communication controller, each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site and the Ethernet communication controller; and

a plurality of computer modules mated with said console, each coupled to one of the connectors in the console and comprising,

a processing unit configured to operate at a frequency of 400 MHz or higher,

a network controller coupled to the Ethernet communication controller and configured to support communication with the other modules,

a main memory coupled to the processing unit, and

a mass storage device coupled to the processing unit,

wherein each of the computer modules provide independent processing in the computer system, and wherein one of the computer modules is configured to provide protection against failure of another of the plurality of computer modules.

- 116. (New) The computer system of claim 115 wherein the Ethernet communication controller supports Giga-bit Ethernet communication between the computer modules and to an external network.
- 117. (New) The computer system of claim 115 wherein the console further comprises a peripheral system shared between the plurality of computer modules, and wherein

the peripheral system comprises at least one device selected from the group consisting of an input device, a second input device, a first monitor, a second monitor, a CDROM, and an external communication port.

- 118. (New) The computer system of claim 115 wherein communication between the computer modules is through Ethernet communication.
- 119. (New) The computer system of claim 115 wherein Ethernet communication between the computer modules passes through said connectors.
 - 120. (New) A computer system comprising:

a console comprising a first coupling site, a second coupling site, a serial communication hub controller, each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site and the serial communication hub controller; and

a plurality of computer modules mated with said console, each coupled to one of the connectors of the console and comprising,

a processing unit configured to operate at a frequency of 400 MHz or higher,

a network controller configured to support communication with the other modules,

a main memory coupled to the processing unit, and

a graphics controller coupled to the processing unit,

wherein each of the computer modules provide independent processing in the computer system, and wherein one of the computer modules is configured to provide protection against failure of another of the plurality of computer modules.

- 121. (New) The computer system of claim 120 wherein the serial communication hub controller supports Giga-bit Ethernet communication between the computer modules and to an external network.
- 122. (New) The computer system of claim 120 wherein the console further comprises a peripheral system shared between the plurality of computer modules and wherein the peripheral system comprises at least one device selected from the group consisting of an input device, a second input device, a first monitor, a second monitor, a CDROM, and an external communication port.
- 123. (New) The computer system of claim 120 wherein communication between the computer modules is through serial communication.
- 124. (New) The computer system of claim 120 wherein serial communication between the computer modules passes through said connectors.
 - 125. (New) A computer system comprising:

a console comprising a first coupling site, a second coupling site, an Ethernet communication hub controller, each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site and the Ethernet communication hub controller; and

a plurality of computer modules mated with said console, each coupled to one of the connectors of the console and comprising,

a processing unit configured to operate at a frequency of 400 MHz or higher,

a network controller coupled to the Ethernet communication hub controller configured to support communication with the other modules, a main memory coupled to the processing unit, and a mass storage device coupled to the processing unit,

wherein each of the computer modules provide independent processing in the computer system, and wherein two of the computer modules can replace each other in operation.

- 126. (New) The computer system of claim 125 wherein the Ethernet communication hub controller supports Giga-bit Ethernet communication between the computer modules and to an external network.
- 127. (New) The computer system of claim 125 wherein the console further comprises a peripheral system shared between the plurality of computer modules, and wherein the peripheral system comprises at least one device selected from the group consisting of an input device, a second input device, a first monitor, a second monitor, a CDROM, and an external communication port.
- 128. (New) The computer system of claim 125 wherein communication between the computer modules is through Ethernet communication.
- 129. (New) The computer system of claim 125 wherein Ethernet communication between the computer modules passes through said connectors.
 - 130. (New) A computer system comprising:

a console comprising a first coupling site, a second coupling site, a serial communication controller, each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site and the serial communication controller; and

a plurality of computer modules mated with said console, each coupled to one of the connectors of the console and comprising,

a processing unit configured to operate at a frequency of 400 MHz or higher,

a network controller configured to support communication with the other modules.

- a main memory coupled to the processing unit, and
- a graphics controller coupled to the processing unit,

wherein each of the computer modules provide independent processing in the computer system, and wherein two of the computer modules can replace each other in operation.

- 131. (New) The computer system of claim 130 wherein the serial communication controller supports Giga-bit Ethernet communication between the computer modules and to an external network.
- 132. (New) The computer system of claim 130 wherein the console further comprises a peripheral system shared between the plurality of computer modules, and wherein the peripheral system comprises at least one device selected from the group consisting of an input device, a second input device, a first monitor, a second monitor, a CDROM, and an external communication port.
- 133. (New) The computer system of claim 130 wherein communication between the computer modules is through serial communication.
- 134. (New) The computer system of claim 130 wherein serial communication between computer modules passes through said connectors.
- 135. (New) A computer system for multi-processing purposes, the computer system comprising:

a console comprising a first coupling site and a second coupling site; each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site;

a plurality of computer modules mated with said console, each of the computer modules coupled to a connector, each of the computer modules comprising a processing unit, a main memory coupled to the processing unit, a graphics controller coupled to the processing unit, and a mass storage device comprising a hard disk drive coupled to the processing unit;

wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, and wherein one of the plurality of computer modules is configured to provide protection against failure of another of the plurality of computer modules.